



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,984	07/14/2003	Jeong-Hoon Sin	11281-008-999	7802
20583	7590	08/24/2005	EXAMINER	
JONES DAY 222 EAST 41ST ST NEW YORK, NY 10017			TON, ANABEL	
			ART UNIT	PAPER NUMBER
			2875	

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SAC

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/619,984	SIN, JEONG-HOON	
	<b>Examiner</b>	<b>Art Unit</b>	
	Anabel M. Ton	2875	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 16 June 2005.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-7 and 9-19 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,7,9 and 13 is/are rejected.  
 7) Claim(s) 2-6,10-12 and 14-19 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
Paper No(s)/Mail Date _____.	6) <input type="checkbox"/> Other: _____ .

## DETAILED ACTION

1. The indicated allowability of claim 8 is withdrawn in view of the newly discovered reference(s) to Lauterwald. Rejections based on the newly cited reference(s) follow.

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1,7,9,13 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 07-005609 and further in view of Lauterwrald (5,0864,578).

3. JP 07-005609 discloses the claimed invention except for the recitation of the contacts being ring shaped and the upper and lower contact terminals formed so that a center portion is bent upwards. JP'609 discloses a main body installed to a certain height and having a drum (21,25,26) for winding a wire rope and a motor (23) for rotating the drum, a casing mounted under the main body and having an open bottom, an upper terminal unit installed in the casing to be spaced apart from the main body and having at least one upper contact terminal (34, 53) at a lower end; a moving body connected to the wire rope to be vertically movable by the motor (24), the moving body having a connecting unit to install a lamp(A) thereto and a lower contact terminal mounted to an upper end thereof(54) corresponding to the upper contact terminal; and a

stopper (28,30) installed to the casing for fixing the moving body in the state that the upper and lower contact terminals are contacted each other, the upper and lower terminals having a disc shape; a spring is installed to at least one of the upper contact terminals mounted to the upper terminal unit so as to press the corresponding upper contact terminal towards the moving body(33); the stopper is rotatably mounted to the casing to elastically maintain a horizontal state by a spring, and a wherein a protrusion (29,30) is formed at the side of the moving body at a position partially contacted with the stopper so that the protrusion is hooked on the stopper when descending after ascending above the stopper in order to fix the height of the moving body which the protrusion is unhooked from the stopper when moving above the stopper in order to make the moving body be movable downwards((figs 2,4,5,6). Lauterwald discloses an inner contact ring and a contact terminal of an array concentrically surrounding the ring for the purpose of providing the electrical device with electrical contact means that can be made of a minimal amount of parts and that can be accommodating contacts of different tolerances; the upper and lower contact terminals have a ring shape. It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the contacts terminals of the device of JP '609 with the ring contacts of Lauterwald for the purpose of providing JP '609 with contact terminals that remain centered and gripped to each other without being misaligned with each other causing improper electrical contact (col. 2 lines 3-16). With regards to the upper and lower terminals being formed so that a center portion is bent upwards, as shown by JP '609's upper contact 53 is protruding from base 54 so that the contact may fit properly into

Art Unit: 2875

upper contact 34, it would have been obvious to one or ordinary skill in the art at the time the invention was made to for the center portion of the contact of JP '609 to have been bent upwards since it appears that the contact of would perform equally as well to provide a stable electrical contact means.

***Allowable Subject Matter***

4. Claims 2-6,8,10-12,14-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter: The prior art cited of record does not teach the following limitations: the upper contact terminals as shaped in claims 2-6 including the shape and amount of contact points, the elastic flaps as recited in claims 10-12, the switch functions as recited in claims 14-20.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anabel M. Ton whose telephone number is (571) 272-2382. The examiner can normally be reached on 08:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anabel M Ton  
Examiner  
Art Unit 2875

AMT



Sandra O'Shea  
Supervisory Patent Examiner  
Technology Center 2800